

WESTERN TRUSS JOB # 2001566

JOB NAME :YAVAPAI COUNTY 2 BDRM

JOB SITE ADRESS :YAVAPAI COUNTY

DATE : 10-2-20

REVIEWED FOR DESIGN CRITERIA ONLY



MiTek USA, Inc. MiTek USA, Inc. 400 Sunrise Avenue, Suite 270 Roseville, CA 95661 Telephone 916-755-3571

Re: 2001566

YAVAPAI COUNTY 2 BDRM

The truss drawing(s) referenced below have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Western Truss.

Pages or sheets covered by this seal: R63988731 thru R63988751 My license renewal date for the state of Arizona is March 31, 2022.

Arizona COA: 11906-0

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.



October 8,2020

Dyer, Cecil

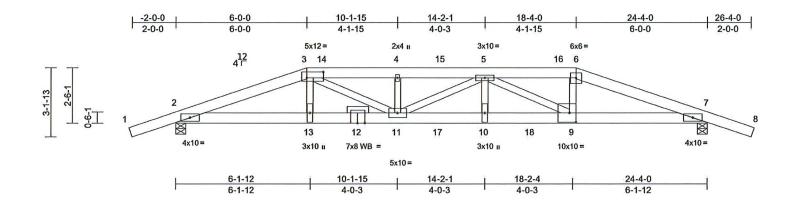
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

REVIEWED FOR DESIGN CRITERIA ONLY

Job	Truss	Truss Type	Qty	Ply	YAVAPAI COUNTY 2 BDRM	
2001566	A01	Hip Girder	1	2	Job Reference (optional)	R63988731

Run: 8.33 S Jul 22 2020 Print: 8.330 S Jul 22 2020 MiTek Industries, Inc. Wed Oct 07 16:53:08 ID:TIQYymzJ2Z8ae6YeqP9lhAyYk5j-fH9ZkJExF1JdEgvMw72stqPTWPasYLnQOYSY42yVl0y

Page: 1



Scale = 1:50.5

Plate Offsets (X, Y):	[3:0-9-0,0-3-4], [9:0-3-8,0-5-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	-0.40	10-11	>719	240	MT20	197/144	
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	1.00	Vert(CT)	-0.56	10-11	>512	180			
TCDL	15.0	Rep Stress Incr	NO	WB	0.34	Horz(CT)	0.13	7	n/a	n/a			
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-SH									
BCDL	10.0										Weight: 237 lb	FT = 20%	

LUMBER

TOP CHORD 2x6 SPF 1650F 1.5E **BOT CHORD** 2x6 SPF 1650F 1.5E **WEBS** 2x4 SPF 1650F 1.5E

OTHERS 2x4 WW Stud/Std

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-10-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 2=0-5-8, 7=0-5-8

Max Horiz 2=-51 (LC 7)

Max Uplift 2=-693 (LC 6), 7=-694 (LC 7)

Max Grav 2=4202 (LC 17), 7=4204 (LC 18) (lb) - Maximum Compression/Maximum

FORCES

TOP CHORD

BOT CHORD

Tension

1-2=0/101, 2-3=-10626/1525, 3-14=-13835/2018, 4-14=-13835/2018,

4-15=-13834/2018, 5-15=-13834/2018,

5-16=-10189/1493, 6-16=-10190/1493,

6-7=-10636/1526, 7-8=0/101

2-13=-1391/9964, 12-13=-1398/10047, 11-12=-1398/10047, 11-17=-1923/13779,

10-17=-1923/13779, 10-18=-1923/13779,

9-18=-1923/13779, 7-9=-1351/9973

3-13=-103/1170, 3-11=-634/4219,

4-11=-610/139, 5-11=-117/170,

5-10=-147/1178, 5-9=-4029/611,

6-9=-385/3033

NOTES

WEBS

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.

Web connected as follows: 2x4 - 1 row at 0-9-0 oc, Except member 3-13 2x4 - 1 row at 0-2-0 oc, Except member 6-9 2x4 - 1 row at 0-2-0 oc, member 4-11 2x4 -1 row at 0-4-0 oc, member 5-10 2x4 - 1 row at 0-4-0 oc.

- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Wind: ASCE 7-16; Vult=115mph (3-second gust)
 Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat.
 II; Exp C; Enclosed; MWFRS (envelope) exterior zone; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 693 lb uplift at joint 2 and 694 lb uplift at joint 7.

- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 976 lb down and 166 lb up at 6-0-0, 429 lb down and 81 lb up at 8-0-12, 429 lb down and 81 lb up at 10-0-12, 858 lb down and 162 lb up at 12-0-12, 429 lb down and 81 lb up at 14-3-4, and 429 lb down and 81 lb up at 16-3-4, and 976 lb down and 166 lb up at 18-3-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-3=-110, 3-6=-110, 6-8=-110, 2-7=-20

Concentrated Loads (lb)

Vert: 12=-429 (F), 13=-976 (F), 11=-429 (F), 10=-429 (F), 9=-976 (F), 17=-858 (F), 18=-429 (F)



⚠ WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSIITPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

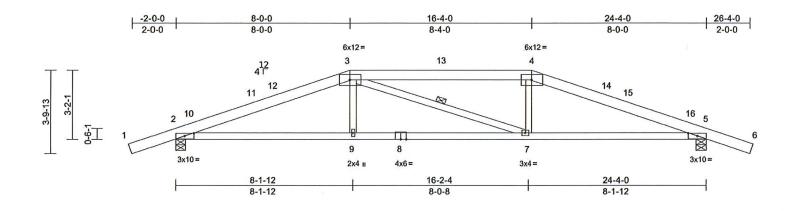


Job	Truss	Truss Type	Qty	Ply	YAVAPAI COUNTY 2 BDRM	
2001566	A02	Hip	1	1	Job Reference (optional)	R63988732

Western Truss & Truss

Run: 8.33 S Jul 22 2020 Print: 8.330 S Jul 22 2020 MiTek Industries, Inc. Wed Oct 07 16:53:10 ID:eb3HijuYTjNRwB5UT92uSvyYk5p-0FzSn1I33axwKRnKige1au6CMQNkDdZ9XqAJIFyVl0t

Page: 1



Scale = 1:50.5

Plate Offsets (X, Y): [2:0-5-2,0-1-8], [5:0-5-2,0-1-8]

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.87	Vert(LL)	-0.20	7-9	>999	240	MT20	169/123
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.70	Vert(CT)	-0.35	7-9	>821	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.12	5	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-SH								
BCDL	10.0										Weight: 94 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SPF 1650F 1.5E **BOT CHORD** 2x4 SPF 1650F 1.5E WEBS 2x4 WW Stud/Std

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-2-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing. **WEBS**

1 Row at midpt 3-7

REACTIONS 2=0-5-8, 5=0-5-8 (size) Max Horiz 2=-63 (LC 15)

Max Uplift 2=-319 (LC 10), 5=-319 (LC 11)

Max Grav 2=2074 (LC 35), 5=2074 (LC 35)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/89, 2-10=-3668/487, 10-11=-3642/502,

11-12=-3524/504, 3-12=-3501/519. 3-13=-3327/538, 4-13=-3327/538, 4-14=-3507/521, 14-15=-3531/507,

15-16=-3649/504, 5-16=-3675/490, 5-6=0/89 2-9=-378/3317, 8-9=-373/3326,

BOT CHORD

7-8=-373/3326, 5-7=-393/3323

3-9=0/328, 3-7=-362/371, 4-7=0/328

WEBS

NOTES

Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; Hip Roof; Hip Truss; MWFRS (envelope) exterior zone and C-C Exterior(2E) -2-0-14 to 0-11-2, Interior (1) 0-11-2 to 8-0-0, Exterior(2R) 8-0-0 to 12-2-15, Interior (1) 12-2-15 to 16-4-0, Exterior(2R) 16-4-0 to 20-6-15, Interior (1) 20-6-15 to 26-4-14 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33

- TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 319 lb uplift at joint 2 and 319 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



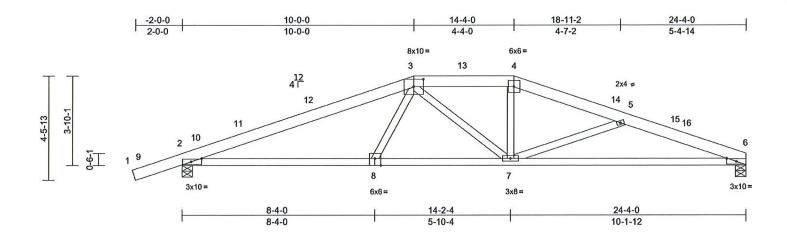
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Job	Truss	Truss Type	Qty	Ply	YAVAPAI COUNTY 2 BDRM	
2001566	A03	Hip	2	1	Job Reference (optional)	R63988733

Run: 8.33 S Jul 22 2020 Print: 8.330 S Jul 22 2020 MiTek Industries, Inc. Wed Oct 07 16:53:10 ID:eb3HijuYTjNRwB5UT92uSvyYk5p-0FzSn1l33axwKRnKige1au6AYQKjDVY9XqAJlFyVl0t

Page: 1



Scale = 1:47.6

Plate Offsets (X, Y): [2:0-5-6,0-1-8], [3:0-5-0,0-3-13], [6:0-5-2,0-1-8], [8:0-3-0,Edge]

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Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.99	Vert(LL)	-0.25	2-8	>999	240	MT20	169/123
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.90	Vert(CT)	-0.44	6-7	>656	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.82	Horz(CT)	0.13	6	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-SH								
BCDL	10.0	1									Weight: 94 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SPF 1650F 1.5E *Except* 1-3:2x6 SPF

2100F 1.8E

BOT CHORD 2x4 SPF 1650F 1.5E WEBS 2x4 WW Stud/Std

BRACING

TOP CHORD Structural wood sheathing directly applied. BOT CHORD Rigid ceiling directly applied or 9-5-1 oc

bracing.

REACTIONS (size) 2=0-5-8, 6=0-5-8

Max Horiz 2=86 (LC 18)

Max Uplift 2=-309 (LC 10), 6=-198 (LC 11)

Max Grav 2=2304 (LC 35), 6=1900 (LC 35)

(lb) - Maximum Compression/Maximum

FORCES (lb) - Ma Tension

TOP CHORD 1-9=0/19, 2-9=0/89, 2-10=-3582/472,

10-11=-3530/482, 11-12=-3320/493, 3-12=-3287/511, 3-13=-2946/511, 4-13=-2946/511, 4-14=-3080/508, 5-14=-3212/492, 5-15=-4161/657,

15-16=-4188/649, 6-16=-4301/639

BOT CHORD 2-8=-390/3130, 7-8=-421/3043,

6-7=-564/3947

WEBS 3-8=0/294, 3-7=-407/288, 4-7=-29/605,

5-7=-1091/231

NOTES

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; Hip Roof; Hip Truss; MWFRS (envelope) exterior zone and C-C Exterior(2E) -2-0-14 to 0-11-2, Interior (1) 0-11-2 to 10-0-0, Exterior(2E) 10-0-0 to 14-4-0, Exterior(2R) 14-4-0 to 18-6-15, Interior (1) 18-6-15 to 24-1-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33

- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 198 lb uplift at joint 6 and 309 lb uplift at joint 2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



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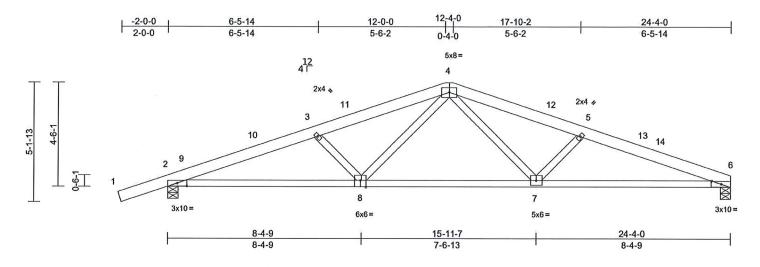
ANSITPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	YAVAPAI COUNTY 2 BDRM	
2001566	A04	Hip	2	1	Job Reference (optional)	R63988734

Run: 8.33 S Jul 22 2020 Print: 8.330 S Jul 22 2020 MiTek Industries, Inc. Wed Oct 07 16:53:10 ID:eb3HijuYTjNRwB5UT92uSvyYk5p-0FzSn1l33axwKRnKige1au6KtQMUDT?9XqAJIFyVl0t

Page: 1



Scale = 1:47.7

Plate Offsets (X, Y):	[2:0-5-2,0-1-8], [6:0-5-2,0-1-8], [8:0-3-0,Edge]
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC		Vert(LL)	-0.17	7-8	>999		MT20	169/123
(Roof Snow = 40.0)		Lumber DOL	1.15	BC		Vert(CT)	-0.31	7-8	>938	180	111111111111111111111111111111111111111	
TCDL	15.0	Rep Stress Incr	YES	WB	0.92	Horz(CT)	0.11	6	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-SH							1	
BCDL	10.0										Weight: 94 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SPF 1650F 1.5E **BOT CHORD** 2x4 SPF 1650F 1.5E 2x4 WW Stud/Std

WEBS BRACING

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or

4-2-10 oc purlins.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 2=0-5-8, 6=0-5-8

Max Horiz 2=99 (LC 18)

Max Uplift 2=-294 (LC 10), 6=-183 (LC 11) Max Grav 2=1884 (LC 21), 6=1613 (LC 22)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/61, 2-9=-3666/534, 9-10=-3552/534,

3-10=-3525/556, 3-11=-3063/477, 4-11=-2913/493, 4-12=-2982/509, 5-12=-3136/489, 5-13=-3621/572,

13-14=-3649/559, 6-14=-3739/558 2-8=-466/3337, 7-8=-269/2218,

6-7=-471/3443

WEBS 4-7=-106/1111, 5-7=-898/233, 4-8=-88/1038,

3-8=-840/218

NOTES Wind: ASCE 7-16; Vult=115mph (3-second gust)

Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; Hip Roof; Hip Truss; MWFRS (envelope) exterior zone and C-C Exterior(2E) -2-0-14 to 0-11-2, Interior (1) 0-11-2 to 12-2-0, Exterior(2R) 12-2-0 to 16-4-15, Interior (1) 16-4-15 to 24-1-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33

TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

- 3) Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 183 lb uplift at joint 6 and 294 lb uplift at joint 2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



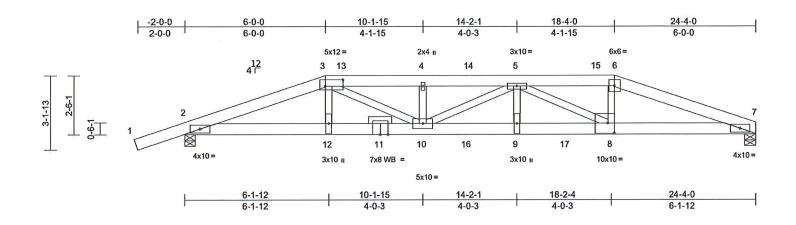
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Job	Truss	Truss Type	Qty	Ply	YAVAPAI COUNTY 2 BDRM	
2001566	A05	Hip Girder	1	2	Job Reference (optional)	3988735

Run: 8.33 S Jul 22 2020 Print: 8.330 S Jul 22 2020 MiTek Industries, Inc. Wed Oct 07 16:53:11 ID:tJ6hao?CLUW9VZHDVYi?JoyYk5g-0FzSn1l33axwKRnKige1au6KEQMcDc39XqAJIFyVl0t

Page: 1



Scale = 1:47

Plate Offsets (X, Y): [3:0	-9-0,0-3-4], [8:0-3-8,0-5-0]
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.37	Vert(LL)	-0.38	9-10	>764	240	MT20	197/144
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.71	Vert(CT)	-0.53	9-10	>543	180		
TCDL	15.0	Rep Stress Incr	NO	WB	0.34	Horz(CT)	0.12	7	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-SH								
BCDL	10.0										Weight: 230 lb	FT = 20%

LUMBER TOP CHORD

2x6 SPF 1650F 1.5E

2x6 SPF 1650F 1.5E *Except* 11-7:2x6 SPF **BOT CHORD**

2100F 1.8E

WEBS 2x4 SPF 1650F 1.5E OTHERS 2x4 WW Stud/Std

BRACING

Structural wood sheathing directly applied or TOP CHORD

4-10-0 oc purlins

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing. REACTIONS (size) 2=0-5-8, 7=0-5-8

Max Horiz 2=66 (LC 6)

Max Uplift 2=-695 (LC 6), 7=-583 (LC 7)

Max Grav 2=4208 (LC 17), 7=3939 (LC 18)

FORCES (lb) - Maximum Compression/Maximum

Tension **TOP CHORD**

1-2=0/101, 2-3=-10653/1531, 3-13=-13824/2026, 4-13=-13824/2026,

4-14=-13824/2026, 5-14=-13824/2026,

5-15=-10242/1554, 6-15=-10243/1554,

6-7=-10734/1588

BOT CHORD 2-12=-1411/9990, 11-12=-1418/10074,

10-11=-1418/10074, 10-16=-1962/13843, 9-16=-1962/13843, 9-17=-1962/13843,

8-17=-1962/13843, 7-8=-1439/10025

3-12=-106/1189, 3-10=-640/4176,

4-10=-591/143, 5-10=-116/124,

5-9=-147/1194, 5-8=-4041/609,

6-8=-387/3045

NOTES

WEBS

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.

Bottom chords connected as follows: 2x6 - 2 rows

staggered at 0-9-0 oc. Web connected as follows: 2x4 - 1 row at 0-9-0 oc, Except member 3-12 2x4 - 1 row at 0-2-0 oc, Except member 6-8 2x4 - 1 row at 0-2-0 oc, member 4-10 2x4 -1 row at 0-4-0 oc, member 5-9 2x4 - 1 row at 0-4-0 oc.

- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this
- This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 583 lb uplift at joint 7 and 695 lb uplift at joint 2.

- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 976 lb down and 166 lb up at 6-0-0, 429 lb down and 81 lb up at 8-0-12, 429 lb down and 81 lb up at 10-0-12, 858 lb down and 162 lb up at 12-0-12, 429 lb down and 81 Ib up at 14-3-4, and 429 lb down and 81 lb up at 16-3-4, and 976 lb down and 166 lb up at 18-3-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-3=-110, 3-6=-110, 6-7=-110, 2-7=-20

Concentrated Loads (lb)

Vert: 11=-429 (B), 12=-976 (B), 10=-429 (B), 9=-429 (B), 8=-976 (B), 16=-858 (B), 17=-429 (B)



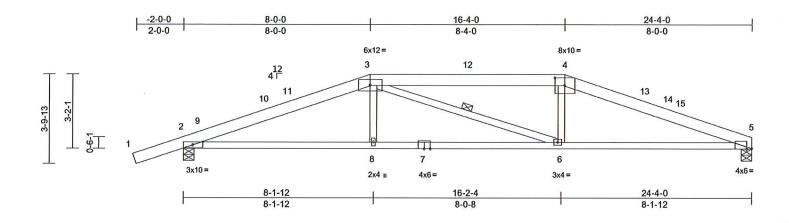
A WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSIIP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	YAVAPAI COUNTY 2 BDRM	
2001566	A06	Hip	1	1	Job Reference (optional)	R63988736

Run: 8.33 S Jul 22 2020 Print: 8.330 S Jul 22 2020 MiTek Industries, Inc. Wed Oct 07 16:53:11
ID:6ndfv2vAE1VIXLga1sZ7 6yYk5o-URXq?MJhqt3nybMWGO9G75fN8qgHv3rlmUyslivVl0s

Page: 1



Scale = 1:47.2

Plate Offsets (X, Y): [2:	:0-5-2,0-1-8], [4:0-5-0,0-3-13]	, [5:0-2-10,Edge]
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		1										
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.87	Vert(LL)	-0.21	5-6	>999	240	MT20	169/123
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.35	5-6	>812	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.37	Horz(CT)	0.12	5	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-SH								
BCDL	10.0										Weight: 90 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SPF 1650F 1.5E BOT CHORD 2x4 SPF 1650F 1.5E WEBS 2x4 WW Stud/Std

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-2-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

WEBS 1 Row a

1 Row at midpt 3-6

REACTIONS (size) 2=0-5-8, 5=0-5-8

Max Horiz 2=73 (LC 14)

Max Uplift 2=-321 (LC 10), 5=-209 (LC 11) Max Grav 2=2092 (LC 35), 5=1688 (LC 35)

FORCES (lb) - Maximum Compression/Maximum

Tension
TOP CHORD 1-2=0/89

1-2=0/89, 2-9=-3685/516, 9-10=-3659/530,

10-11=-3540/533, 3-11=-3517/547, 3-12=-3413/567, 4-12=-3413/567, 4-13=-3588/559, 13-14=-3623/542, 14-15=-3624/542, 5-15=-3727/539

BOT CHORD 2-8=-441/3332, 7-8=-436/3341,

6-7=-436/3341, 5-6=-445/3410

6-7=-436/3341, 5-6=-445/3410 WEBS 3-8=0/327, 3-6=-333/446, 4-6=0/326

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; Hip Roof; Hip Truss; MWFRS (envelope) exterior zone and C-C Exterior(2E) -2-0-14 to 0-11-2, Interior (1) 0-11-2 to 8-0-0, Exterior(2R) 8-0-0 to 12-2-15, Interior (1) 12-2-15 to 16-4-0, Exterior(2R) 16-4-0 to 20-6-15, Interior (1) 20-6-15 to 24-1-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

- Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 209 lb uplift at joint 5 and 321 lb uplift at joint 2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

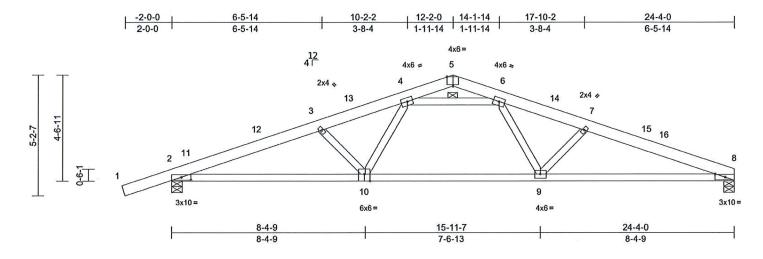
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSIITPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	YAVAPAI COUNTY 2 BDRM	
2001566	A07	Common	4	1	Job Reference (optional)	R63988737

Run: 8.33 S Jul 22 2020 Print: 8.330 S Jul 22 2020 MiTek Industries, Inc. Wed Oct 07 16:53:11 ID:6ndfv2vAE1VIXLaq1sZ7 6vYk5o-URXq?MJhqt3nvbMWGO9G75fTRqfSvvRImUvslivVI0s

Page: 1



Scale = 1:47.7

Plate Offsets (X, Y): [2:0-5-2,0-1-8], [5:0-3-0,Edge], [8:0-5-2,0-1-8], [10:0-3-0,Edge]

A CONTROL OF THE PROPERTY OF T												
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.46	Vert(LL)	-0.23	8-9	>999	240	MT20	197/144
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.86	Vert(CT)	-0.38	8-9	>752	180		
TCDL	15.0	Rep Stress Incr	NO	WB	0.78	Horz(CT)	0.12	8	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-SH						0.4250		
BCDL	10.0										Weight: 94 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SPF 1650F 1.5E **BOT CHORD** 2x4 SPF 1650F 1.5E 2x4 WW Stud/Std WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-11-14 oc purlins

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing. WEBS

1 Row at midpt 4-6

REACTIONS 2=0-5-8, 8=0-5-8 (size)

Max Horiz 2=99 (LC 18)

Max Uplift 2=-177 (LC 10), 8=-65 (LC 11) Max Grav 2=2002 (LC 21), 8=1730 (LC 22)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/61, 2-11=-3977/182, 11-12=-3862/182,

3-12=-3836/204, 3-13=-3367/132, 4-13=-3260/143, 4-5=-902/85, 5-6=-893/94,

6-14=-3301/164, 7-14=-3436/150,

7-15=-3940/226, 15-16=-3968/213,

8-16=-4058/213

BOT CHORD 2-10=-134/3628, 9-10=0/2821,

8-9=-146/3742

7-9=-942/246, 3-10=-858/225, 4-10=-75/861,

4-6=-1948/77, 6-9=-95/941

WERS NOTES

Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; Hip Roof; Common Truss; MWFRS (envelope) exterior zone and C-C Exterior(2E) -2-0-14 to 0-11-2, Interior (1) 0-11-2 to 12-2-0, Exterior(2R) 12-2-0 to 16-4-15, Interior (1) 16-4-15 to 24-1-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33

- TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 65 lb uplift at joint 8 and 177 lb uplift at joint 2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 118 lb down at 14-2-0, and 118 lb down at 10-2-0 on top chord. The design/selection of such connection device (s) is the responsibility of others.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-5=-110, 5-8=-110, 2-8=-20

Concentrated Loads (lb)

Vert: 4=-118 (F), 6=-118 (F)

Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft) Vert: 1-5=-90, 5-8=-90, 2-8=-20

Concentrated Loads (lb) Vert: 4=-118 (F), 6=-118 (F)

Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft) Vert: 1-12=-90, 5-12=-122, 5-8=-48, 2-8=-20 Concentrated Loads (lb)

Vert: 4=-118 (F), 6=-118 (F) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft) Vert: 1-5=-48, 5-15=-122, 8-15=-90, 2-8=-20

Concentrated Loads (lb)

Vert: 4=-118 (F), 6=-118 (F)



Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	YAVAPAI COUNTY 2 BDRM	
2001566	A07	Common	4	1	Job Reference (optional)	R63988737

Run: 8.33 S Jul 22 2020 Print: 8.330 S Jul 22 2020 MiTek Industries, Inc. Wed Oct 07 16:53:11 ID:6ndfv2vAE1VIXLgg1sZ7_6yYk5o-URXq?MJhqt3nybMWGO9G75fTRqfSyyRImUvsliyVl0s

Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (lb/ft)

Vert: 1-5=-30, 5-8=-30, 2-8=-40 Concentrated Loads (lb)

Vert: 4=-118 (F), 6=-118 (F)
Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33 Uniform Loads (lb/ft)

Vert: 1-2=69, 2-11=41, 5-11=29, 5-14=39, 8-14=29, 2-8=-12

Horz: 1-2=-81, 2-11=-53, 5-11=-41, 5-14=51, 8-14=41

Concentrated Loads (lb)

Vert: 4=-118 (F), 6=-118 (F)

Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33 Uniform Loads (lb/ft)

Vert: 1-2=23, 2-13=29, 5-13=39, 5-16=29, 8-16=41, 2-8=-12

Horz: 1-2=-35, 2-13=-41, 5-13=-51, 5-16=41,

Concentrated Loads (lb)

Vert: 4=-118 (F), 6=-118 (F)
Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber
Increase=1.33, Plate Increase=1.33 Uniform Loads (lb/ft)

Vert: 1-2=-20, 2-5=-47, 5-8=-47, 2-8=-20

Horz: 1-2=-10, 2-5=17, 5-8=-17 Concentrated Loads (lb)

Vert: 4=-118 (F), 6=-118 (F)

Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (lb/ft) Vert: 1-2=-40, 2-5=-47, 5-8=-47, 2-8=-20 Horz: 1-2=10, 2-5=17, 5-8=-17

Concentrated Loads (lb) Vert: 4=-118 (F), 6=-118 (F)

Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33 Uniform Loads (lb/ft)

Vert: 1-2=46, 2-5=31, 5-8=18, 2-8=-12 Horz: 1-2=-58, 2-5=-43, 5-8=30

Concentrated Loads (lb)

Vert: 4=-118 (F), 6=-118 (F)

11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right:
Lumber Increase=1.33, Plate Increase=1.33 Uniform Loads (lb/ft)

Vert: 1-2=11, 2-5=18, 5-8=31, 2-8=-12 Horz: 1-2=-23, 2-5=-30, 5-8=43 Concentrated Loads (lb)

Vert: 4=-118 (F), 6=-118 (F)
Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33 Uniform Loads (lb/ft)

Vert: 1-2=7, 2-5=1, 5-8=-13, 2-8=-20

Horz: 1-2=-37, 2-5=-31, 5-8=17 Concentrated Loads (lb)

Vert: 4=-118 (F), 6=-118 (F)

Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (lb/ft)

Vert: 1-2=-7, 2-5=-13, 5-8=1, 2-8=-20 Horz: 1-2=-23, 2-5=-17, 5-8=31

Concentrated Loads (lb)

Vert: 4=-118 (F), 6=-118 (F)

14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel:
Lumber Increase=1.33, Plate Increase=1.33 Uniform Loads (lb/ft)

Vert: 1-2=25, 2-5=31, 5-8=13, 2-8=-12 Horz: 1-2=-37, 2-5=-43, 5-8=25

Concentrated Loads (lb) Vert: 4=-118 (F), 6=-118 (F)

Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (lb/ft)

Vert: 1-2=6, 2-5=13, 5-8=31, 2-8=-12

Horz: 1-2=-18, 2-5=-25, 5-8=43 Concentrated Loads (lb)

Vert: 4=-118 (F), 6=-118 (F)
Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33 Uniform Loads (lb/ft)

Vert: 1-2=12, 2-5=18, 5-8=7, 2-8=-12

Horz: 1-2=-24, 2-5=-30, 5-8=19 Concentrated Loads (lb)

Vert: 4=-118 (F), 6=-118 (F)

17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33 Uniform Loads (lb/ft)

Vert: 1-2=1, 2-5=7, 5-8=18, 2-8=-12 Horz: 1-2=-13, 2-5=-19, 5-8=30

Concentrated Loads (lb)

Vert: 4=-118 (F), 6=-118 (F)

Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33 Uniform Loads (lb/ft)

Vert: 1-2=7, 2-5=1, 5-8=-18, 2-8=-20 Horz: 1-2=-37, 2-5=-31, 5-8=12

Concentrated Loads (lb) Vert: 4=-118 (F), 6=-118 (F)

Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33 Uniform Loads (lb/ft)

Vert: 1-2=-12, 2-5=-18, 5-8=1, 2-8=-20 Horz: 1-2=-18, 2-5=-12, 5-8=31

Concentrated Loads (lb)

Vert: 4=-118 (F), 6=-118 (F)

20) Dead + Snow on Overhangs: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-2=-110, 2-5=-30, 5-8=-30, 2-8=-20

Concentrated Loads (lb) Vert: 4=-118 (F), 6=-118 (F)

Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft) Vert: 1-12=-110, 5-12=-153, 5-8=-54, 2-8=-20

Concentrated Loads (lb) Vert: 4=-118 (F), 6=-118 (F)

Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-5=-54, 5-15=-153, 8-15=-110, 2-8=-20

Concentrated Loads (lb)

Vert: 4=-118 (F), 6=-118 (F)

Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90

Uniform Loads (lb/ft)

Vert: 1-5=-30, 5-8=-30, 2-8=-20

Concentrated Loads (lb)

Vert: 4=-118 (F), 6=-118 (F)

Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (lb/ft)

Vert: 1-2=-62, 2-5=-67, 5-8=-77, 2-8=-20

Horz: 1-2=-28, 2-5=-23, 5-8=13

Concentrated Loads (lb)

Vert: 4=-118 (F), 6=-118 (F)

Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate

Uniform Loads (lb/ft)

Vert: 1-2=-73, 2-5=-77, 5-8=-67, 2-8=-20 Horz: 1-2=-17, 2-5=-13, 5-8=23

Concentrated Loads (lb)

Vert: 4=-118 (F), 6=-118 (F)

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33 Uniform Loads (lb/ft) Vert: 1-2=-62, 2-5=-67, 5-8=-81, 2-8=-20 Horz: 1-2=-28, 2-5=-23, 5-8=9

Page: 2

Vert: 4=-118 (F), 6=-118 (F) 27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (lb/ft)

Concentrated Loads (lb)

Vert: 1-2=-76, 2-5=-81, 5-8=-67, 2-8=-20 Horz: 1-2=-14, 2-5=-9, 5-8=23

Concentrated Loads (lb) Vert: 4=-118 (F), 6=-118 (F)

Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (lb/ft) Vert: 1-2=4, 2-5=-28, 5-8=-28, 2-8=-12

Horz: 1-2=-16, 2-5=16, 5-8=-16

Concentrated Loads (lb) Vert: 4=-118 (F), 6=-118 (F)

Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (lb/ft) Vert: 1-5=4, 5-8=4, 2-8=-12 Horz: 1-5=-16, 5-8=16

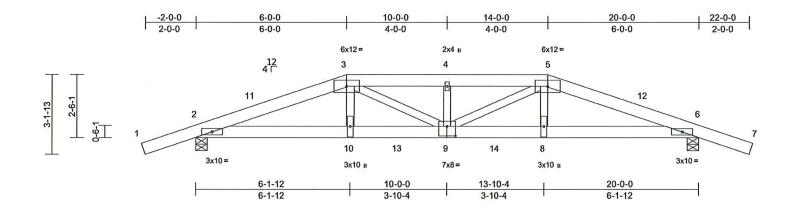
Concentrated Loads (lb) Vert: 4=-118 (F), 6=-118 (F)

REVIEWED FOR DESIGN CRITERIA ONLY

Job	Truss	Truss Type	Qty	Ply	YAVAPAI COUNTY 2 BDRM	
2001566	B01	Hip Girder	1	2	Job Reference (optional)	63988738

Run: 8.33 S Jul 22 2020 Print: 8.330 S Jul 22 2020 MiTek Industries, Inc. Wed Oct 07 16:53:12 ID:piER?T1St5mtktQbcykTODyYk5e-yd4CCiJKbBBealxjq5gVfJBi4E4XhPSS?8fQq8yVl0r

Page: 1



Scale = 1:43.8

Plate Offsets (X, Y): [9:0-4-0,0-4-8]

Loading	(nef)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	Lid	PLATES	GRIP
	(psf)	the state of the s		100000			in				The state of the s	
TCLL	40.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	-0.19	8-9	>999	240	MT20	169/123
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.55	Vert(CT)	-0.27	8-9	>881	180		
TCDL	15.0	Rep Stress Incr	NO	WB	0.73	Horz(CT)	0.07	6	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-SH							1	
BCDL	10.0										Weight: 186 lb	FT = 20%

All loads are considered equally applied to all plies,

CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B),

Wind: ASCE 7-16; Vult=115mph (3-second gust)

Lumber DOL=1.33 plate grip DOL=1.33

unless otherwise indicated.

Cs=1.00; Ct=1.10

except if noted as front (F) or back (B) face in the LOAD

Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat.

II; Exp C; Enclosed; MWFRS (envelope) exterior zone;

TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate

Unbalanced snow loads have been considered for this

This truss has been designed for greater of min roof live

load of 16.0 psf or 1.00 times flat roof load of 40.0 psf on

overhangs non-concurrent with other live loads.

Provide adequate drainage to prevent water ponding. This truss has been designed for a 10.0 psf bottom

on the bottom chord in all areas where a rectangle

10) Provide mechanical connection (by others) of truss to

11) This truss is designed in accordance with the 2018

R802.10.2 and referenced standard ANSI/TPI 1.

bearing plate capable of withstanding 541 lb uplift at

International Residential Code sections R502.11.1 and

chord and any other members.

joint 2 and 541 lb uplift at joint 6.

chord live load nonconcurrent with any other live loads.

3-06-00 tall by 2-00-00 wide will fit between the bottom

* This truss has been designed for a live load of 40.0psf

DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0;

LUMBER

TOP CHORD 2x6 SPF 1650F 1.5E **BOT CHORD** 2x6 SPF 1650F 1.5E **WEBS** 2x4 WW Stud/Std

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 2=0-5-8, 6=0-5-8

Max Horiz 2=-51 (LC 47)

Max Uplift 2=-541 (LC 6), 6=-541 (LC 7) Max Grav 2=3321 (LC 31), 6=3321 (LC 31)

(lb) - Maximum Compression/Maximum FORCES

Tension

TOP CHORD 1-2=0/101, 2-11=-7908/1060,

3-11=-7776/1081, 3-4=-8738/1265, 4-5=-8738/1265, 5-12=-7776/1082,

6-12=-7908/1061, 6-7=0/101

2-10=-970/7332, 10-13=-978/7421,

9-13=-978/7421, 9-14=-946/7421, 8-14=-946/7421, 6-8=-938/7332

3-10=-115/1246, 3-9=-271/1763,

4-9=-575/146, 5-9=-273/1763, 5-8=-114/1246

WEBS NOTES

BOT CHORD

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.

Bottom chords connected as follows: 2x6 - 2 rows

row at 0-4-0 oc.

staggered at 0-9-0 oc. Web connected as follows: 2x4 - 1 row at 0-2-0 oc, Except member 3-9 2x4 - 1 row at 0-9-0 oc, Except member 5-9 2x4 - 1 row at 0-9-0 oc, member 4-9 2x4 - 1

12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 976 lb down and 166 lb up at 6-0-0, 429 lb down and 81 lb up at 8-0-12, 429 lb down and 81 lb up at 10-0-0, and 429 lb down and 81 lb up at 11-11-4, and 976 lb down and 166 lb up at 13-11-4 on bottom chord. The design/ selection of such connection device(s) is the

responsibility of others.

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-3=-110, 3-5=-110, 5-7=-110, 2-6=-20

Concentrated Loads (lb)

Vert: 10=-976 (F), 9=-429 (F), 8=-976 (F), 13=-429 (F), 14=-429 (F)



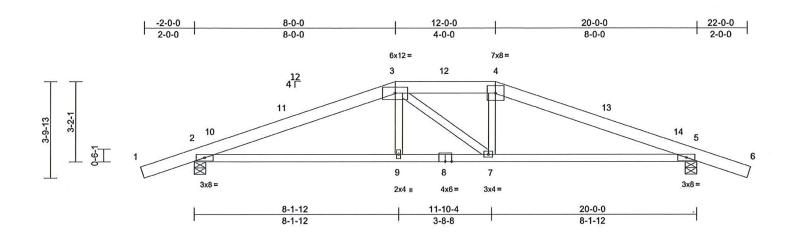
A WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and furus systems, see ANSIITH1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	YAVAPAI COUNTY 2 BDRM	٦
2001566	B02	Hip	1	1	R63988739 Job Reference (optional)	

Run: 8.33 S Jul 22 2020 Print: 8.330 S Jul 22 2020 MiTek Industries, Inc. Wed Oct 07 16:53:12 ID:azB16Owp?Kd99UEtbZ4MXKyYk5n-yd4CCiJKbBBealxjq5qVfJBb?E3UhWkS?8fQq8yVl0r

Page: 1



Scale = 1:43.9

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.67	Vert(LL)	-0.14	2-9	>999	240	MT20	169/123
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.62	Vert(CT)	-0.27	2-9	>868	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.07	5	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-SH								
BCDL	10.0										Weight: 77 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SPF 1650F 1.5E BOT CHORD 2x4 SPF 1650F 1.5E WEBS 2x4 WW Stud/Std

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-10-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 2=0-5-8, 5=0-5-8

Max Horiz 2=-63 (LC 19)

Max Uplift 2=-274 (LC 10), 5=-274 (LC 11)

Max Grav 2=1914 (LC 35), 5=1914 (LC 35) (lb) - Maximum Compression/Maximum

FORCES (lb) - Ma

TOP CHORD

1-2=0/89, 2-10=-2709/434, 10-11=-2672/448,

3-11=-2493/466, 3-12=-2356/495,

4-12=-2356/495, 4-13=-2496/472,

13-14=-2675/455, 5-14=-2713/440, 5-6=0/89 2-9=-329/2346, 8-9=-326/2353,

BOT CHORD 2-9=-329/2346, 8-9=-326/2353, 7-8=-326/2353, 5-7=-343/2349

3-9=0/228, 3-7=-312/320, 4-7=-45/293

WEBS NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; Hip Roof; Hip Truss; MWFRS (envelope) exterior zone and C-C Exterior(2E) -2-0-14 to 0-11-2, Interior (1) 0-11-2 to 8-0-0, Exterior(2E) 8-0-0 to 12-0-0, Exterior(2R) 12-0-0 to 16-2-15, Interior (1) 16-2-15 to 22-0-14 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.

- This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 274 lb uplift at joint 2 and 274 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

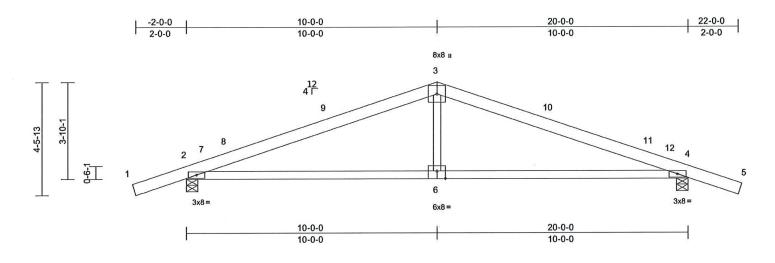
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSIITPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20801



	Job	Truss	Truss Type	Qty	Ply	YAVAPAI COUNTY 2 BDRM	
١	2001566	B03	Common	5	1	R63988740 Job Reference (optional)	

Run: 8.33 S Jul 22 2020 Print: 8.330 S Jul 22 2020 MiTek Industries, Inc. Wed Oct 07 16:53:12 ID:azB16Owp?Kd99UEtbZ4MXKvYk5n-vd4CCiJKbBBealxig5qVfJBY E16hVsS?8fQq8yVl0r

Page: 1



Scale = 1:44

Plate Offsets (X, Y): [6:	0-4-0,Eagej											
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.86	Vert(LL)	-0.25	4-6	>947	240	MT20	169/123
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.71	Vert(CT)	-0.43	4-6	>540	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.32	Horz(CT)	0.06	4	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-SH								
BCDL	10.0										Weight: 72 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SPF 2100F 1.8E BOT CHORD 2x4 SPF 1650F 1.5E WEBS 2x4 WW Stud/Std

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-2-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 2=0-5-8, 4=0-5-8 Max Horiz 2=-75 (LC 15)

Max Uplift 2=-260 (LC 10), 4=-260 (LC 11)

Max Grav 2=1642 (LC 21), 4=1642 (LC 22)

FORCES (lb) - Ma

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/6

1-2=0/61, 2-7=-2247/308, 7-8=-2211/312,

8-9=-2078/329, 3-9=-2045/347,

3-10=-2045/347, 10-11=-2078/329, 11-12=-2211/312, 4-12=-2247/308, 4-5=0/61

2-6=-191/1959, 4-6=-191/1959

BOT CHORD 2-6=-191/1 WEBS 3-6=0/421

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; Hip Roof; Common Truss; MWFRS (envelope) exterior zone and C-C Exterior(2E) -2-0-14 to 0-11-2, Interior (1) 0-11-2 to 10-0-0, Exterior(2R) 10-0-0 to 14-2-15, Interior (1) 14-2-15 to 22-0-14 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Cl=1.10
- Unbalanced snow loads have been considered for this design.

- This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 260 lb uplift at joint 2 and 260 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MITEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and property incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSITIPIT Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	YAVAPAI COUNTY 2 BDRM	
2001566	J01	Diagonal Hip Girder	6	1	Job Reference (optional)	R63988741

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Page: 1



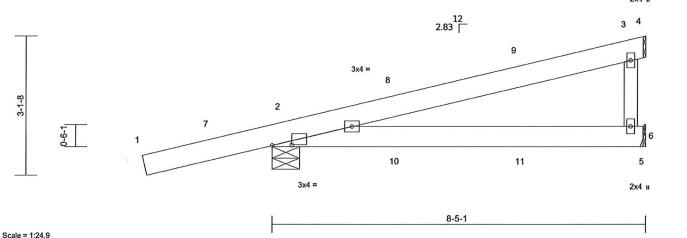


Plate Offsets (X, Y): [2:0-5-5,0-0-2]

ELANGE SCHOOL COLOR COLO												
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.56	Vert(LL)	-0.07	2-6	>999	240	MT20	169/123
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.29	Vert(CT)	-0.14	2-6	>669	180		
TCDL	15.0	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 37 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SPF 1650F 1.5E BOT CHORD 2x6 SPF 1650F 1.5E WEBS 2x4 WW Stud/Std

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.

BOT CHORD
REACTIONS

(size) 2=0-7-6, 5= Mechanical

Max Horiz 2=124 (LC 6)

Max Uplift 2=-212 (LC 6), 5=-57 (LC 10)

Max Grav 2=1073 (LC 17), 5=575 (LC 17) (lb) - Maximum Compression/Maximum

Tension

1-7=0/34, 2-7=0/80, 2-8=-136/31, 8-9=-115/7,

3-9=-36/82, 3-4=-11/0, 3-6=-499/117

BOT CHORD 2-10=0/0, 10-11=0/0, 6-11=0/0, 5-6=0/0

NOTES

FORCES

TOP CHORD

- Wind: ASCE 7-16; Vult=115mph (3-second gust)
 Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat.
 II; Exp C; Enclosed; MWFRS (envelope) exterior zone;
 Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 20.0 psf or 1.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 5) *This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 212 lb uplift at joint 2 and 57 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 97 lb down and 302 lb up at 2-9-8, 97 lb down and 302 lb up at 2-9-8, and 109 lb down and 56 lb up at 5-7-7, and 109 lb down and 56 lb up at 5-7-7 on top chord, and 0 lb down at 2-9-8, 0 lb down at 2-9-8, and 20 lb down at 5-7-7, and 20 lb down at 5-7-7 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

 Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-3=-110, 3-4=-110, 2-5=-20

Concentrated Loads (lb)

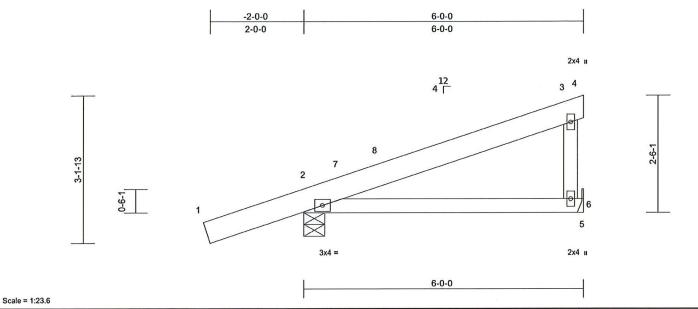
Vert: 8=124 (F=62, B=62), 9=-59 (F=-30, B=-30), 11=-18 (F=-9, B=-9)





Job	Truss	Truss Type	Qty	Ply	YAVAPAI COUNTY 2 BDRM	
2001566	J02	Jack-Closed	21	1	Job Reference (optional)	R63988742

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E	BCDL	
	IIMREE	,

Loading

(Roof Snow = 40.0)

TCLL

TCDL

BCLL

TOP CHORD 2x6 SPF 1650F 1.5E **BOT CHORD** 2x4 SPF 1650F 1.5E 2x4 WW Stud/Std WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

(psf)

40.0

15.0

0.0

10.0

Spacing

Code

Plate Grip DOL

Rep Stress Incr

Lumber DOL

6-0-0 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size)

2=0-5-8, 6= Mechanical

Max Horiz 2=124 (LC 10)

Max Uplift 2=-164 (LC 10), 6=-61 (LC 14) Max Grav 2=898 (LC 21), 6=449 (LC 21)

FORCES (lb) - Maximum Compression/Maximum Tension

1-2=0/85, 2-7=-170/10, 7-8=-97/18,

TOP CHORD

3-8=-90/91, 3-4=-13/0, 3-6=-388/231

BOT CHORD 2-6=0/0, 5-6=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; Hip Roof; End Jack Truss; MWFRS (envelope) exterior zone and C-C Exterior(2E) -2-0-14 to 0-11-2, Interior (1) 0-11-2 to 6-0-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live 4) load of 16.0 psf or 1.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

6) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

DEFL

Vert(LL)

Vert(CT)

Horz(CT)

0.26

0.25

0.00

Refer to girder(s) for truss to truss connections.

CSI

TC

BC

WB

Matrix-P

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 61 lb uplift at joint 6 and 164 lb uplift at joint 2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

2-0-0

1.15

1.15

YES

IRC2018/TPI2014



PLATES

Weight: 24 lb

I/defl

>999

>648

n/a n/a

(loc)

2-6

2-6

-0.05

-0.10

n/a

L/d

240 MT20

180

GRIP

169/123

FT = 20%

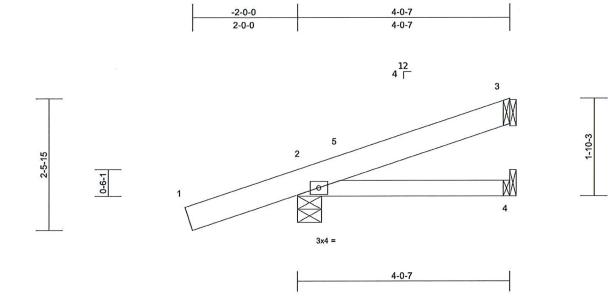
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designs. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSIITH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	YAVAPAI COUNTY 2 BDRM	
2001566	J03L	Jack-Open	6	1	R6398874 Job Reference (optional)	3

Run: 8.33 S Jul 22 2020 Print: 8.330 S Jul 22 2020 MiTek Industries, Inc. Wed Oct 07 16:53:13 ID:azB16Owp?Kd99UEtbZ4MXKyYk5n-QqeaQ2KyMVJVBvWvOpBkCWktReXhQ16bDoOzMayVl0q

Page: 1



Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	-0.01	2-4	>999	240	MT20	197/144
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.11	Vert(CT)	-0.02	2-4	>999	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 16 lb	FT = 20%

LUMBER

Scale = 1:21

TOP CHORD 2x6 SPF 1650F 1.5E BOT CHORD 2x4 SPF 1650F 1.5E

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-0-7 oc purlins.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 2=0-5-8, 3= Mechanical, 4=

Mechanical riz 2=95 (LC 10)

Max Horiz 2=95 (LC 10) Max Uplift 2=-164 (LC 10), 3=-51 (LC 14)

Max Grav 2=782 (LC 21), 3=178 (LC 21),

4=75 (LC 5)

FORCES

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/85, 2-5=-141/10, 3-5=-103/43

BOT CHORD 2-4=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; Hip Roof; End Jack Truss; MWFRS (envelope) exterior zone and C-C Exterior(2E) -2-0-14 to 0-11-2, Interior (1) 0-11-2 to 3-11-11 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 6) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 51 lb uplift at joint 3 and 164 lb uplift at joint 2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

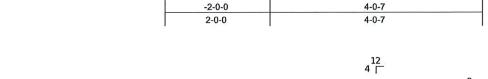
Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and property incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSIITPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

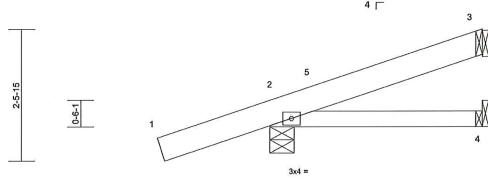


Job	Truss	Truss Type	Qty	Ply	YAVAPAI COUNTY 2 BDRM	
2001566	J03R	Jack-Open	6	1	Job Reference (optional)	63988744

Western Truss & Truss

Run: 8.33 S Jul 22 2020 Print: 8.330 S Jul 22 2020 MiTek Industries, Inc. Wed Oct 07 16:53:13 ID:2AIPKkxRmel?nep38Hbb3XyYk5m-QqeaQ2KyMVJVBvWvOpBkCWktReXhQ16bDoOzMayVl0q Page: 1





4-0-7

Scale = 1:21

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	-0.01	2-4	>999	240	MT20	197/144
(Roof Snow = 40.0)		Lumber DOL	1.15	ВС	0.11	Vert(CT)	-0.02	2-4	>999	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 16 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SPF 1650F 1.5E BOT CHORD 2x4 SPF 1650F 1.5E

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-0-7 oc purlins.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 2=0-5-8, 3= Mechanical, 4=

Mechanical Max Horiz 2=95 (LC 10)

Max Uplift 2=-164 (LC 10), 3=-51 (LC 14) 2=782 (LC 21), 3=178 (LC 21), Max Grav

4=75 (LC 5)

FORCES

(lb) - Maximum Compression/Maximum Tension

1-2=0/85, 2-5=-141/10, 3-5=-103/43 TOP CHORD

BOT CHORD 2-4=0/0

NOTES

- Wind: ASCE 7-16: Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; Hip Roof; End Jack Truss; MWFRS (envelope) exterior zone and C-C Exterior(2E) -2-0-14 to 0-11-2, Interior (1) 0-11-2 to 3-11-11 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 51 lb uplift at joint 3 and 164 lb uplift at joint 2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



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Job	Truss	Truss Type	Qty	Ply	YAVAPAI COUNTY 2 BDRM	
2001566	J04L	Jack-Open	6	1	Job Reference (optional)	R63988745

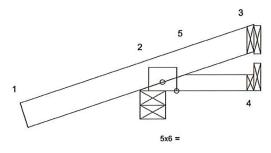
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4 T

1-9-15





2-0-7

Scale = 1:19.7

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL		Plate Grip DOL	1.15	TC	0.23	Vert(LL)	0.00	2-4	>999	240	MT20	197/144
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.02	Vert(CT)	0.00	2-4	>999	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 10 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SPF 1650F 1.5E BOT CHORD 2x4 SPF 1650F 1.5E

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-0-7 oc purlins.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 2=0-5-8, 3= Mechanical, 4=

Mechanical

Max Horiz 2=67 (LC 10)

Max Uplift 2=-189 (LC 10), 3=-141 (LC 20)

Max Grav 2=713 (LC 21), 3=40 (LC 10), 4=35

(LC 5)

FORCES

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/83, 2-5=-144/26, 3-5=-102/33

BOT CHORD 2-4=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; Hip Roof; End Jack Truss; MWFRS (envelope) exterior zone and C-C Exterior(2E) -2-0-14 to 0-11-2, Interior (1) 0-11-2 to 1-11-11 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 141 lb uplift at joint 3 and 189 lb uplift at joint 2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

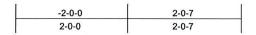




Job	Truss	Truss Type	Qty	Ply	YAVAPAI COUNTY 2 BDRM	
2001566	J04R	Jack-Open	6	1	Job Reference (optional)	R63988746

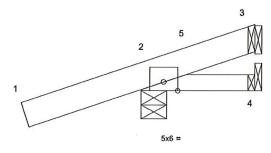
Run: 8.33 S Jul 22 2020 Print: 8.330 S Jul 22 2020 MiTek Industries, Inc. Wed Oct 07 16:53:13 ID:2AIPKkxRmel?nep38Hbb3XyYk5m-QqeaQ2KyMVJVBvWvOpBkCWktYeY4Q16bDoOzMayVl0q

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4 [

1-9-15





2-0-7

Scale = 1:19.7

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	0.00	2-4	>999	240	MT20	197/144
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.02	Vert(CT)	0.00	2-4	>999	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 10 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SPF 1650F 1.5E BOT CHORD 2x4 SPF 1650F 1.5E

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-0-7 oc purlins.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 2=0-5-8, 3= Mechanical, 4= Mechanical

viz 2-67 (I C 10

Max Horiz 2=67 (LC 10)

Max Uplift 2=-189 (LC 10), 3=-141 (LC 20)

Max Grav 2=713 (LC 21), 3=40 (LC 10), 4=35

(LC 5)

FORCES

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/83, 2-5=-144/26, 3-5=-102/33

BOT CHORD 2-4=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; Hip Roof; End Jack Truss; MWFRS (envelope) exterior zone and C-C Exterior(2E) -2-0-14 to 0-11-2, Interior (1) 0-11-2 to 1-11-11 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 141 lb uplift at joint 3 and 189 lb uplift at joint 2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

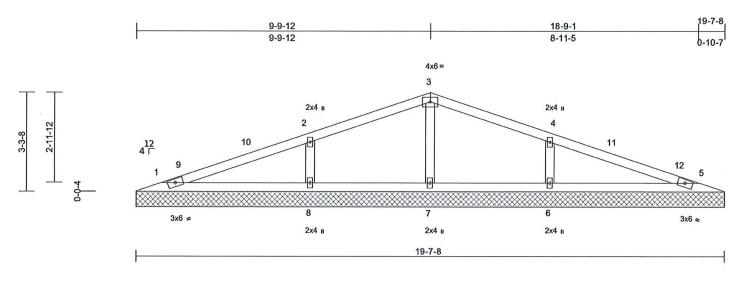
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Job	Truss	Truss Type	Qty	Ply	YAVAPAI COUNTY 2 BDRM
2001566	V01	Valley	1	1	R63988747 Job Reference (optional)

Run: 8.33 S Jul 22 2020 Print: 8.330 S Jul 22 2020 MiTek Industries, Inc. Wed Oct 07 16:53:14 ID:8ge2GUTKAcBfl?1ZWv1UKZyWSpp-u0CydOLa7oRMp355xWizlkH_O1rf9RqlSS8Xu0yVl0p

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.48	Vert(LL)	n/a	-	n/a	999	MT20	197/144
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.26	Vert(TL)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.23	Horiz(TL)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-SH	1000000							
BCDL	10.0										Weight: 49 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SPF 1650F 1.5E BOT CHORD 2x4 SPF 1650F 1.5E OTHERS 2x4 WW Stud/Std

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 1=19-7-8, 5=19-7-8, 6=19-7-8,

7=19-7-8, 8=19-7-8

Max Horiz 1=-56 (LC 15)

Max Uplift 1=-28 (LC 10), 5=-34 (LC 11), 6=-136 (LC 15), 8=-136 (LC 14)

Max Grav 1=319 (LC 20), 5=319 (LC 21),

6=948 (LC 21), 7=369 (LC 1),

8=948 (LC 20)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-9=-125/30, 9-10=-53/38, 2-10=-30/105,

2-3=-146/99, 3-4=-146/97, 4-11=-13/105, 11-12=-30/14, 5-12=-125/7

BOT CHORD 1-8=-8/45, 7-8=-8/45, 6-7=-8/45, 5-6=-8/45

WEBS

3-7=-329/69, 2-8=-790/207, 4-6=-790/207

NOTES

Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; Hip Roof; Common Truss; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-11-5 to 3-11-5, Interior (1) 3-11-5 to 9-10-8, Exterior(2R) 9-10-8 to 13-10-8, Interior (1) 13-10-8 to 18-9-11 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33

- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 28 lb uplift at joint 1, 34 lb uplift at joint 5, 136 lb uplift at joint 8 and 136 lb uplift at joint 6.
- This truss is designed in accordance with the 2018
 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



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ANSIITPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	YAVAPAI COUNTY 2 BDRM	
2001566	V02	Valley	1	1	Job Reference (optional)	R63988748

Run: 8.33 S Jul 22 2020 Print: 8.330 S Jul 22 2020 MiTek Industries, Inc. Wed Oct 07 16:53:14 ID:NPgS9Yaz2NJNtNDIXIhbBSyWSpg-u0CydOLa7oRMp355xWizlkH_o1ql9R9lSS8Xu0yVl0p

Page: 1

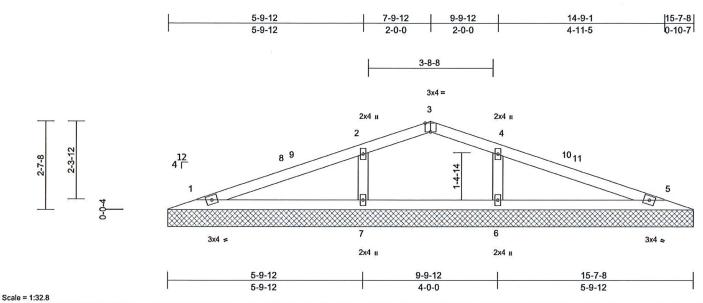


Plate Offsets (X, Y): [3:0-2-0,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.46	Vert(LL)	n/a	-	n/a	999	MT20	197/144
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.28	Vert(TL)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.21	Horiz(TL)	0.00	5	n/a	n/a	1	
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-SH								
BCDL	10.0										Weight: 37 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SPF 1650F 1.5E **BOT CHORD** 2x4 SPF 1650F 1.5E WEBS 2x4 WW Stud/Std

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

Max Grav

REACTIONS (size) 1=15-7-8, 5=15-7-8, 6=15-7-8,

7=15-7-8

Max Horiz 1=-43 (LC 15) Max Uplift

1=-22 (LC 10), 5=-23 (LC 11), 6=-112 (LC 15), 7=-114 (LC 14)

1=340 (LC 20), 5=340 (LC 21), 6=864 (LC 21), 7=864 (LC 20)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-8=-82/41, 8-9=-72/48, 2-9=-71/157,

2-3=-70/30, 3-4=-70/30, 4-10=-70/157,

10-11=-71/48, 5-11=-82/41 1-7=-52/107, 6-7=-52/107, 5-6=-52/107

BOT CHORD WEBS 2-7=-715/229, 4-6=-715/229

NOTES

Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; Hip Roof; Common Truss; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-11-5 to 3-11-5, Interior (1) 3-11-5 to 7-10-8, Exterior(2R) 7-10-8 to 12-1-7, Interior (1) 12-1-7 to 14-9-11 zone; cantilever left and right exposed; end vertical left and right exposed:C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33

- Truss designed for wind loads in the plane of the truss only. For stude exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 22 lb uplift at joint 1, 23 lb uplift at joint 5, 114 lb uplift at joint 7 and 112 lb uplift at joint 6.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



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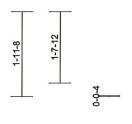


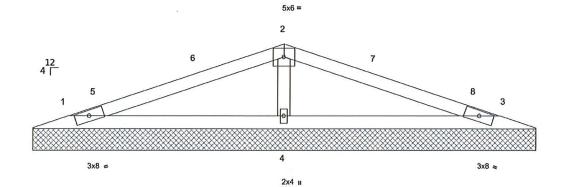
Job	Truss	Truss Type	Qty	Ply	YAVAPAI COUNTY 2 BDRM	
2001566	V03	Valley	1	1	Job Reference (optional)	R63988749

Run: 8.33 S Jul 22 2020 Print: 8.330 S Jul 22 2020 MiTek Industries, Inc. Wed Oct 07 16:53:14 ID:NPgS9Yaz2NJNtNDIXIhbBSyWSpg-u0CydOLa7oRMp355xWizlkH_01ps9StlSS8Xu0yVl0p

Page: 1







11-7-8

Scale = 1:25.5

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.51	Vert(LL)	n/a	-	n/a	999	MT20	197/144
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.37	Vert(TL)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.16	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-SH								
BCDL	10.0										Weight: 26 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SPF 1650F 1.5E BOT CHORD 2x4 SPF 1650F 1.5E OTHERS 2x4 WW Stud/Std

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 1=11-7-8, 3=11-7-8, 4=11-7-8

Max Horiz 1=31 (LC 14) Max Uplift 1=-46 (LC 10), 3=-50 (LC 15),

4=-59 (LC 10), 3=-50 (LC 15

Max Grav 1=385 (LC 20), 3=385 (LC 21),

4=724 (LC 1)

FORCES (Ib) - Maximum Compression/Maximum

Tension

TOP CHORD 1-5=-168/46, 5-6=-48/53, 2-6=-28/71,

2-7=-28/71, 7-8=-48/50, 3-8=-169/43

BOT CHORD 1-4=-1/46, 3-4=-1/46 WEBS 2-4=-519/223

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust)
 Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat.
 II; Exp C; Enclosed; Hip Roof; Common Truss; MWFRS
 (envelope) exterior zone and C-C Exterior(2E) 0-11-5 to
 3-11-5, Interior (1) 3-11-5 to 5-10-8, Exterior(2R) 5-10-8
 to 10-1-7, Interior (1) 10-1-7 to 10-9-11 zone; cantilever
 left and right exposed; end vertical left and right
 exposed; C-C for members and forces & MWFRS for
 reactions shown; Lumber DOL=1.33 plate grip
 DOL=1.33
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 46 lb uplift at joint 1, 50 lb uplift at joint 3 and 59 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

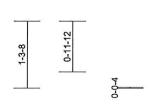
Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see _____ANISITP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

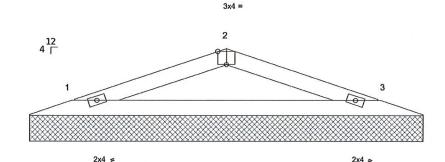


Job	Truss	Truss Type	Qty	Ply	YAVAPAI COUNTY 2 BDRM	
2001566	V04	Valley	1	1	R63988750 Job Reference (optional)	

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7-7-8

Scale = 1:21.4

Plate Offsets (X, Y): [2:0-2-0,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.25	Vert(LL)	n/a	-	n/a	999	MT20	197/144
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.31	Vert(TL)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a	2	
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 16 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SPF 1650F 1.5E **BOT CHORD** 2x4 SPF 1650F 1.5E

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 1=7-7-8, 3=7-7-8

Max Horiz 1=19 (LC 18)

Max Uplift 1=-45 (LC 10), 3=-45 (LC 11)

Max Grav 1=412 (LC 20), 3=412 (LC 21) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-2=-545/324, 2-3=-545/324

BOT CHORD 1-3=-262/477

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; Hip Roof; Common Truss; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- Truss designed for wind loads in the plane of the truss only. For stude exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable. or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 45 lb uplift at joint 1 and 45 lb uplift at joint 3.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and

R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANS/ITP/11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



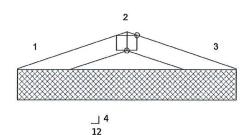
Job	Truss	Truss Type	Qty	Ply	YAVAPAI COUNTY 2 BDRM	
2001566	V05	Valley	1	1	Job Reference (optional)	'51

Western Truss & Truss

Run: 8.33 S Jul 22 2020 Print: 8.330 S Jul 22 2020 MiTek Industries, Inc. Wed Oct 07 16:53:15 ID:NPgS9Yaz2NJNtNDIXIhbBSvWSpg-NCmLakMCu6aCRCgHVEDCHxpENREtuxcuh6t4RTvVi0o Page: 1



4 7 3x4 =



3-7-8

Scale = 1:18.2

Plate Offsets (X, Y): [2:0-2-0,Edge]

I DESCRIPTION OF THE												
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	n/a	-	n/a	999	MT20	197/144
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.00	Vert(TL)	n/a	-	n/a	999		
TCDL	15.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.01	3	n/a	n/a	1	
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 4 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SPF 1650F 1.5E

BRACING TOP CHORD

Structural wood sheathing directly applied or

3-9-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 1=3-7-8, 3=3-7-8

Max Horiz 1=9 (LC 14)

Max Uplift 1=-38 (LC 10), 3=-38 (LC 11)

Max Grav 1=156 (LC 20), 3=156 (LC 21)

FORCES Tension

(lb) - Maximum Compression/Maximum

TOP CHORD 1-2=-43/39, 2-3=-43/39

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust)
 Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; Hip Roof; Common Truss; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone: cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 4-0-0 oc.

- * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 38 lb uplift at joint 1 and 38 lb uplift at joint 3.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



A WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITEk® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent buckling of individual truss was and bracing of truss systems, see ANSIITH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



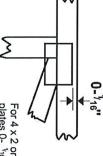
Symbols

PLATE LOCATION AND ORIENTATION



Apply plates to both sides of truss offsets are indicated. Center plate on joint unless x, y Dimensions are in ft-in-sixteenths.

and fully embed teeth.



For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.

8

7

6

S

required direction of slots in connector plates. This symbol indicates the

* Plate location details available in MiTek 20/20 software or upon request.

PLATE SIZE

4 × 4

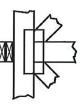
width measured perpendicular to slots. Second dimension is the length parallel to slots. The first dimension is the plate

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the if indicated. output. Use T or I bracing

BEARING



Min size shown is for crushing only. number where bearings occur. reaction section indicates joint (supports) occur. Icons vary but Indicates location where bearings

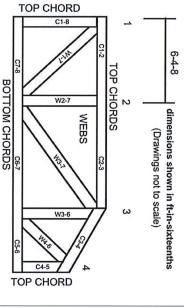
ANSI/TPI1: Industry Standards:

National Design Specification for Metal Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Building Component Safety Information, Design Standard for Bracing. Plate Connected Wood Truss Construction.

Connected Wood Trusses.

DSB-89:

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988 ER-3907, ESR-2362, ESR-1397, ESR-3282

truss unless otherwise shown. Trusses are designed for wind loads in the plane of the

section 6.3 These truss designs rely on lumber values established by others. Lumber design values are in accordance with ANSI/TPI 1

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MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required.
- wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.

 3. Never exceed the design loading shown and braces.

 3. Never exceed the design loading shown and braces.

w

Provide copies of this truss design to the building of designer, erection supervisor, property owner and all other interested parties.

4

- Cut members to bear tightly against each other
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- shall not exceed 19% at time of fabrication. Unless otherwise noted, moisture content of lumber
- Unless expressly noted, this design is not applicable for
- Camber is a non-structural consideration and is the use with fire retardant, preservative treated, or green lumber.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.

camber for dead load deflection.

responsibility of truss fabricator. General practice is to

- Lumber used shall be of the species and size, and in all respects, equal to or better than that
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing or less, if no ceiling is installed, unless otherwise noted
- Connections not shown are the responsibility of others
- Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.